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elementary applications of mathematics to the physical sciences; mathematics of statistics; mathematics of finance; history of elementary mathematics; didactic methods and text-books; mathematical recreations; instruments; models.

From these headings, and from the standing of the men who have undertaken the preparation of these monographs, it appears that Italy will soon have a work which will be extremely useful to her teachers of secondary mathematics. It is to be hoped that its appearance will tend to attract attention to the great need of an extensive mathematical encyclopedia in English, dealing with secondary mathematics. Those whose interests are mainly in higher mathematics are generally in position to use the great encyclopedia which is now being published in French and German, but teachers of secondary mathematics cannot usually derive so much profit from this great work. It would appear that our need of an encyclopedia of elementary mathematics should be greater than the need in Italy, and that this need should receive attention at our teachers meetings, especially at those having a national scope. M.

BOOKS.

Introduction A La Thëorie de Nombres Algëbriques. Par Dr. J. Sommer, Professeur A La "Technische Hochschule" de Dantzig. Edition Francaise Revue et Augmenteé. Traduit de L'Allemend Par A. Lévy, Professeur Au Lycée Saint-Louis. Avec Préface de J. Hadamard, Professeur Au Collége de France. Paper Cover, x+376 pages. Price, 15 francs. Paris: A. Hermann et Fils.

This work is divided into five chapters. The first chapter is the Introduction, treating the theorems of ordinary number theory. Chapter II deals with quadratic bodies; Chapter III, applications of the theory of quadratic bodies; Chapter IV, bodies of the third degree; and Chapter V, relative bodies. The treatment of the various topics indicated in the above enumeration is very clear and free from unnecessary complex and abstruce statements. In Chapter III, pages 184-201, we find a discussion of the last theorem of Fermat. We especially recommend a careful reading of this discussion. It will clear up a number of difficulties connected with this famous problem, interest in which has recently been revived by an offer of 100,000 marks for a proof or disproof of its truth. F.

Thëorie des Corps de Nombres Algëbriques. Par David Hilbert, Professeur A L'Université de Goettingen. Ouvrage traduit de L'Allemand Par A. Lévy, Professeur Aut Lycée Saint-Louis. Première Partie Le Nombre Algëbriques et la Corps Algëbriques. Paper Cover, 72 pages. Price, 3 francs. Paris: A. Hermann et Fils.

This translation places the profound researches of Hilbert on the theory of ideals in French garb, and enables English readers to read them both in the original and in the French. F.

A Text-book of Differential Calculus, with Numerous Worked Out Examples. By Ganesh Prasad, B. A. (Cantab), D. Sc. (Allahabad). 8vo. Cloth, xii+161 pages. Price, $1.50. New York and London: Longmans, Green & Co.

This work aims to establish the fundamental principles of the Differential Calculus on a firm foundation and to present its first principles so clearly as to be readily understood by the beginner. The book closes with a few miscellaneous notes among which is a discussion of Weierstrass's Function. F.

The Technical World Magazine for March contains among other articles of interest, one on the Story of the Speaking Dog. The actual breaking into human speech by this animal is one of the most extraordinary things of modern times. F.

The American Journal of Mathematics for April contains the following articles: On Three-Spreads Satisfying Four or More Homogeneous Linear Partial Differential Equations of the Second Order, by Charles H. Sisam; Some Properties of Lines in Space of Four Dimensions and Their Interpretation in the Geometry of the Circle in Space of Three Dimensions, by C. L. E. Moore; On the Geometry of Line Elements in the Plane with Reference to Oscillating Circles, by George F. Gundelfinger; Binary Modular Groups and Their Invariants, by Leonard E. Dickson; The Group of Turns and Slides and the Geometry of Turbines, by Edward Kasner. F.

The Transactions of the American Mathematical Society for April contains the following articles: Biorthogonal Systems of Functions, by Anna J. Pell; Applications of Biorthogonal Systems of Functions to the Theory of Integral Equations, by Anna J. Pell; On the Uniform Convergence of the Developments in Bessel Functions, by C. N. Moore; Determination of the Ordinary and Modular Ternary Linear Groups, by H. H. Mitchell; General Theory of Linear Differential Equations, by Geo. D. Birkhoff. F.

The Mathematical Magazine. A Journal Devoted to Elementary Mathematics. Edited and Published by Artemas Martin, Ph. D., LL. D., Washington, D. C. Issued Quarterly. Price, $1.00 per year, in advance.

The last number, viz., No. 12, of Vol. II, recently published, contains the following articles: About Sixth Power Numbers whose Sum is a Sixth Power, by Artemas Martin; Elementary Proof of Properties of Numbers, by Rollin A. Harris; The United States Sinking-Fund, by Theodore L. DeLand; On Rational Scalene Triangles, by Artemas Martin; On Biquadrate Numbers, by Benton Haldeman; On Rational Right-Angled Triangles, by Artemas Martin.

It is to be regretted that Dr. Martin does not have the leisure to publish the magazine regularly. *The Mathematical Magazine* and *The Mathematical Visitor,* both edited and published by Dr. Martin, even the type-setting being done by himself, are the finest specimens of the type-setters' art in mathematical typography. F.

The Problem of the Angle-Bisectors. A Dissertation Submitted to the Ogden Graduate School of Science of the University of Chicago in Candidacy for the Degree of Doctor of Philosophy, by Richard Philip Baker. 98 pages. Price, $1.10. The University of Chicago Press.

This Thesis is a very detailed discussion of the famous problem, "To construct a triangle, having given the three angle bisectors." This problem, which might easily be attacked by a freshman with the hope of success, proves to be a very intractable one, and not amenable to the ordinary processes of Euclidean Geometry. Dr. Baker has performed a very creditable piece of work in the production of this interesting thesis. F.